SIXTH MEETING ON ANALYSIS AND FORMATION OF N-NITROSO COMPOUNDS

Budapest, Eungary, 18-19 October 1973

AGENDA

Brace

TUESDAY 16 OCTOBER

9.00

Welcoming address - M. Börzsönyi, K. Lapi

Opening address

J. Higginson

Chemistry and Formation

Rapporteur: T. Fazio

Chairman: H. Egan

9.20 - 9.40

CHOW, Y.L. & POLO, J.

Nitrosamides derived from peptide models: their preparations and chemical behaviour

9.40 - 10.00

LOEPPKY, R.N., McKINLEY, W.A., HAZLITT, L.G., BEEDLE, E.C., DEARMAN, S.K. & GNEWUCH, C.T.

The fragmentation and transformation of s-oxidized M-nitrosamines in relation to their analysis and occurrence

10.00 - 10.20

HALLETT, G., JOHAL, S.S., MEYER, T.A. & WILLIAMS, D.L.H.

Reactions of nitrosamines with nucleophiles in acid solution

10.20 - 10.40

CHALLIS, B.C., OUTRAM, J.R. & SHUKER, E.G.

New pathways for the rapid formation of N-nitrosamines under neutral and alkaline conditions

Chairman: L. Keefer

e accidentation and the second section in the

/ 5 11.00 - 11.20

INTE, R.E., FRIBUSH, H.M., SARACOGLU, C., BARTON, R., JASHAWAY, N., JACOBSON, M.K. & LYLE, G.G.

Interaction of polyhydroxy compounds and nitrosamines

/ 6 11.20 - 11.40

OKADA, M., MOCHIZUKI, M., ANJO, T., SONE, T., WAKABAYASHI, & SUZUKI, E.

Formation, deoxygenation and mutagenicity of a-hydroperoxydialkylnitrosamines

00025709

ce/iivk0000

```
CROISY, A., FANNING, J., KERFER, L. & UIM, S.J.
                              Electrophilic promotion of .:-nitrosation reactions:
                        a progress report
      12.00 - 12.20
                        MICHEJDA, C.J., KOEPKE, S.R. & KUPPER, R.
                             Formation and chemistry of \alpha- and \beta-oxidized nitrosamines
                   Chairman: R. Lyle
      14.30 - 14.50
                         KRULL, I.S., HOFFMAN, G. & FINE, D.H.
                             The reactions of organic nitro compounds with secondary amines leading to the formation of #-nitrosamines and #-nitramines
                        NEBELIN, E., PILLAI, S., LUND, E. & THOMSEN, J.
                            On the formation of N-nitrosopyrrolidine from potential
                             precursors and nitrite
                         EPSTEIN, S.S., IQBAL, Z.M. & JOHNSON, M.D.
                             In vivo nitrosation of morpholine in mice by inhaled NO2
12 15.30 - 15.50
                         SINGER, G.M.
                             The mechanism of nitrosation of tertiary amines
                   Chairman: E.A. Walker
                         KIM, Y.-K., TANNENBAUM, S.R. & WISHNOK, J.S.
 16.10 - 16.30 ج /
                             Nitrosation of dialkylamines in the presence of
                            bile acid conjugates
   id 16.30 - 16.50
                         GROENEN, P.J., de COCK-BETHBEDER, M.W., BOUWMAN, J. & DHONT, J.H.
                             Formation of N-nitrosamines and N-nitrosamino acids from
                             food products and nitrite under simulated gastric conditions
  (5 16.50 - 17.10
                         ZIEBARTH, D. & TEICHMANN, B.
```

Nitrosation of some drugs and its inhibition under

The formation chemistry and stability of N-nitrosocarbary

simulated stomach conditions

under simulated stomach conditions

KUBACKI, S.

10 17.10 - 17.30

000025710

Rapporteur: B. Challis

Chairman: C. Rappe

त्र के क्रिकेट के क्रि MERGENS, W.J. & NEWMARK, H.L.

The influence of ascorbic acid and alpha-tocopherol on the formation of nitrosamines in an in vitro gastrointestinal model system

PIGNATELLI, B., FRIESEN, M. & WALKER, E.A.

The role of phenols in catalysis of nitrosamine 18 35 14 704 formation

/f 9.40 - 10.00

MIRVISH, S.S., KARLOWSKI, K., SAMS, J.P. & BIRT, D.F.

Dietary and other factors affecting nitrosomethylurea (NMJ) formation in the rat stomach

10.00 - 10.20 دي

TANNENBAUM, S.R.

Intestinal formation of nitrite and W-nitroso compounds

21 10.20 - 10.40

MASSEY, R.C., DENNIS, M.J., CREWS, C., DAVIES, R. & MCWEENY, D.J.

Model system studies on W-nitrosamine formation in relation to cured meat: the non-polar phase and S-nitroso peptides The second second

Chairman: G. Eisenbrand Wash Hilliam Berlin

ARCHER, M.C., HANSEN, T.J. & TANNENBAUM, S.R.

Compounds formed by treatment of corn (Zea mays)
with nitrous acid with nitrous acid

11.20 - 11.40

KANN, J.M., TAUTS, O.V., KALVE, R.E., MAGI, K.K. BOGOVSKI, P.A.

Potential formation of N-nitrosamines in the course of the technological processing of some foodstuffs

ROLLER, P.P., KEEFER, L.K. & SLAVIN, B.W.

Inhibitory agents and chemical mechanisms in the dihalomethane mediated nitrosation of amines with solid nitrite

12.00 - 12.20

JØRGENSEN, K.A. & LAWESSON, S.-O.

The reaction of N-nitroso compounds with the dimer of p-methoxyphenylthionophosphine sulfide. New aspects of the destruction of the N-nitroso function

<u>Analysis</u>

Rapporteur: D. Fine

Chairman: T. Juszkiewicz

14.30 - 14.50 CHEN, C.B., HECHT, S.S., McCOY, G.D. & HOFFMANN, D.

Assays for metabolic α-hydroxylation of N'-nitrosonornicotine and N-nitrosopyrrolidine and the influence of modifying factors

1 14.50 - 15.10 FINE, D.H., GOFF, E.U., KRULL, I.S. & ROUNBEHLER, D.P.

Some recent advances in the analysis of N-nitrosamines

/ 15.10 - 15.30 FAZIO, T.E., HAVERY, D.C. & HOWARD, J.W.

Determination of volatile N-nitrosamines in foodstuff: I - A new technique for confirmation by CC-NS II - A continued survey of foods and beverages

15.30 - 15.50 HOTCHKISS, J.H., LIBBEY, L.M., BARBOUR, J.F. & SCANLAN, R.A.

Combined GC/TEA and GC/MS/DS techniques for the µg/kg estimation and confirmation of volatile N-nitrosamines in foods

Chairman: T. Kawabata

70 16.10 - 16.30 RHOADES, J.W., HOSENFELD, J.M., TAYLOR, J.M. & JOHNSON, D.E.

. Comparison of analysis of wastewaters for N-nitrosamines by various detectors

16.30 - 16.50 WALTERS, C.L., HART, R.J., KEEFER, L.K. & NEWBERNE, P.M.
The sequential determination of nitrite, N-nitroso

compounds and nitrate and its application

16.50 - 17.30 General discussion on chemistry, formation and analysis

THURSDAY 18 OCTOBER

Occurrence

Rapporteur: M. Castegnaro

Chairman: W. Lijinsky

9.00 - 9.20 SEN, N.P., SEAMAN, S. & MCPHERSON, M.

Further studies on the occurrence of volatile and nonvolatile nitrosamines in foods, and some recent improvements in the methodology for nitrate and nitrite in foods and animal feeds

9.20 - 9.40 SPIEGELHALDER, B., EISENBRAND, G. & PREUSSMANN, R.

Occurrence of volatile nitrosamines in food:
a survey of the West German market

00000257

k0000

```
KAMARATA, T., UIBU, J., OHSMIMA, H., MATSUI, M.
                      HAMANO, M. & TOKIWA, H.
                          Occurrence, formation and precursors of 2-nitroso
                          compounds in Japanese diet
  3(10:00 - 10:20 * HOFFMANN, D., ADAMS, J.D., PIADE, J.J. & HECHT, S.S.
                 Analysis of volatile and tobacco specific nitrosamines
                          in tobacco products ... wife a fine to the country
31 10.20 - 10.40 ZWEIG, G., SELIM, S., HUNNEL, R., MITTELNAN, A., WRIGHT, D.P., Jr, LAW, S.C., Jr & REGELNAN, E.
                     Analytical survey of M-nitroso contaminants in
                          pesticide products why he was the
                 Chairman: D. Hoffmann
                      RAPPE, C. & RYDSTROM, T.
                    Occupational exposure to N-nitroso compounds
                      FAJEN, J.M. multer justine tanning whitey, machin
   11.20 - 11.40
                      / N-Nitroso compounds in the factory environment
                      BARTHOLONEW, B.A., HILL, M.J., HUDSON, M.J., RUDDELL, W.S. & WALTERS, C.L.
39 11.40 - 12.00
                          Gastric bacteria, nitrate, nitrite and nitrosamines in patients with permicious anaemia and in patients
                         treated with cimetidine
                      KOWALSKI, B., MILLER, C.T. & SEN, N.P.
                          Studies on the in vivo formation of nitrosamines
              and humans after ingestion of various meals
                      BRUCE, W.R., DION, P., WANG, S., BOYD, N. & BRIGHT-SEE
                          Dietary factors and levels of fecal mutagens and
                                              Rapporteurs:
                                                                      S. Hecht
```

Poster session

Discussion on posters

List of posters given separately

16.00 - 17.30

/iixk0000

C.L. Walters
L. Griciute

FRIDAY 19 OCTOBER

4

Experimental Pathology

Rapporteur: S. Vesselinovitch

Chairman: K. Lapis

	Char	mont. K. Lapis
- 9.00 نب	9.20	VESSELINOVITCH, S.D.
		Infant mouse as a sensitive bioassay system for carcinogenicity of N-nitroso compounds
/43 9.20 -	9.40	EISENBRAND, G., HABS, M., PREUSSMANN, R. & SCHMAHL, D.
		Dose-response study with W-nitrosopiperidine and single-dose carcinogenicity experiment with W-nitroso-3-hydroxypyrrolidine
بر 9.40 -	10.00	SUGAR, J., SZENTIRMAY, Z. & KRALOVANSZKY, J.
		Pathological features of N-methyl-N*-nitro-N-nitrosoguanid (MNNG) induced neoplastic and preneoplastic lesions of rat stomach
- 10.00 کې	10.20	BORZSONYI, M., SURJAN, A., PINTER, A., TOROK, G., CSIK, M., TAMAS, J., FETTER, J. & FERENCZ, A.
		Endogenous formation of N-nitrosomorpholine from a new fungicide
/46 10.20 -	10.40	WARZOK, R., MENDEL, J., THUST, R., SCHWARZ, H. & SCHNEIDER; J.
		Physico-chemical, mutagenic and carcinogenic properties of nitrosated urea herbicide metabolites
	Chai	man: R. Preussmann
J 4711.00 -	- 11.20	PONG, L.Y.Y., WONG, F.W.T. & CHAN, W.C.
		Does in vivo N-nitrosamine formation in chronic urinary tract infection increase cancer incidence in the rats?
V 4811.20 -	- 11.40	SANSONE, E.B., LOSIKOFF, A.M. & LIJINSKY, W.
		The penetration of rat skin by some nitrosamines of environmental importance
V 4911.40 -	- 12.00	SIMON, K., TAJTI, L. & LAPIS, K.
		Hepatic lesions of lebistes reticulatus induced by DENA
J 5012.00 ·	- 12.20	BOGOVSKI, P.
The state of the s	18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Principles of prevention of formation and action of carcinogenic N-nitroso compounds
12.20	- 12.40	Discussion
12.40		Close of meeting.
1.1		

0000025714

```
មើមអើយ៉ាញ់ មិនស្រែស្រុញ ម៉ា មេខហូវ ស
       Posters to the topic: Chemistry and Formation
/SI * CONTOUR, J.P., GUERIN, I. & MOUVIER, G.
             Adsorption of nitrogen dioxide and nicotine over asbestos.
           Formation of adsorbed N-nitroso compounds
JANZOWSKI, C., KLEIN, R. & PREUSSMANN, R.
             Formation of N-nitroso compounds of the pesticides atrazine, simazine
             and carbaryl with nitrogen oxides
                53 ROPER, H.
             Synthesis of monosaccharide-nitrosamines
   54 IQBAL, Z.M., KRULL, I.S., MILLS, K., FINE, D.H. & EPSTEIN, S.S.
             Kinetics of nitrosamine formation in mice following oral administration
       Posters to the topic: Analysis
   CASTEGNARO, M. & WALKER, E.A.
          Report on collaborative studies on determination of volatile
          nitrosamines in cheese and pesticides
      FELLION, Y., de SMEDT, J. & BRUDNEY, N.
           An HPLC-UV method for the direct evaluation of NDELA in some cosmetic
           products and raw materials
       Posters to the topic: Occurrence
    ISSENBERG, P. & SWANSON, S.E.
          Monitoring exposure of personnel to volatile nitrosamines in the laboratory environment
  JSF PEDERSEN, E., THOMSEN, J. & WERNER, H.
```

Investigations on formation and occurrence of volatile nitrosamines

The analysis of W-nitrosodimethylamine (NDMA) in antihistamines

Occurrence and formation of nitrosamines in animal feeds

CAPTED II.

Nitrates, nitrites and nitroso compounds in local Thai preserved protein foods

in Danish cheese

57 TAYLOR, P., BRADDOCK, P. & CARTER, D.

and cough/cold preparations

JUSZKIEWICZ, T., KOWALSKI, B. & PASTUCHA, E.

41 MIGASENA, P., REALNSUWAN, W. & CHANGBUNRUNG, S.

```
Effect of ascorbyl palmitate and chlorogenic acid on the in vivo
Investigation on the combined action of NDFA with other carcinogens
```

```
PREDA, N. & POPA, L.
            Variation of the concentration of #-nitroso compounds in meat products
            processed with minimal nitrite amounts
  63 ARMIJO, R.
            Stomach cancer and nitrates in Chile
Lyjuhasz, I., Hill, M.J. & NAGY, G. ?
            Possible relationship between nitrate in drinking water and
     incidence of stomach cancer
 TUREK, B., HLAVSOVA, D., TUCEK, J., WALDMAN, J. & CERNA, J.
            The contribution to the fate of nitrates and nitrites in the organism
 66 VARCHESE, A.J., BRUCE, W.R., KREPINSKI, J.J.F. & YATES, P.
            Isolation and properties of a highly mutagenic N-nitroso compound
            from human feces
     WALKER, E.A., CASTEGNARO, M., PIGNATELLI, B., CRESPI, M. & MUNOZ, N.
            Preliminary report on volatile nitrosamines in gastric juices
      Posters to the topic: Experimental Pathology
6; LIJINSKY, W.
            Comparative carcinogenicity of N-nitroso compounds in different species
6 4 HECHT, S.S., CHEN, C.B. & HOFFMANN, D.
        Metabolism of tobacco specific nitrosamines in rodents and man
      EMURA, M., RICHTER-REICHHELM, H.-B. & MOHR, U.
    Some aspects of prenatal risk to diethylnitrosamine carcinogenesis
            A survey over 18 years with experimental feeding of nitrosodimethylamine
            to domestic animals
   <sup>1</sup> GINER-SOROLLA, A., ANDERSON, L.M., GREENBAUM, J.H., LAST, K. & BUDINGER, J.H.
            N6-(methylnitroso) adenosine: a carcinogen from a nucleic acid component
 73 THUST, R., MENDEL, J., SCHWARZ, H. & WARZOK, R.
            Clastogenicity and aberration kinetics of some alkylarylnitrosoureas
            in Chinese hamster V79-E cells
  7 Y RUSU, M.A., PREDA, N., CRACIUN, C., GADALEANU, V. & BUCUR, N.
            Histoenzymological and ultrastructural changes in rats following the
            administration of aminopyrine and nitrite (nitrosoaminopyrine)
     SURJAN, A., TOROK, G., BORZSONYI, M., PINTER, A., CSIK, M. & FETTER, J.
```

nitrosation of a new pesticide (trimorphamide)

7 GRICIUTE, L.

In Grateful Appreciation

ALKALOIDA

BAYER AG

CHEMICAL MACHINE WORKS OF BUDAPEST

CHINOIN PHARMACEUTICAL AND CHEMICAL WORKS LTD:

CIBA GEIGY AG

EGYT PHARMACEUTICAL WORKS

HOECHST AG

HOFFMANN-LA ROCHE

NEW ENGLAND INSTITUTE FOR LIFE SCIENCES

NITROKEMIA IPARTELEPEK

SCHERING AG

SZESZIPARI VALLALATOK TROSZTJE

TAURUS HUNGARIAN RUBBER WORKS

NOV 13 HIS

0000025717

Source: https://www.industrydocuments.ucsf.edu/docs/jjxk0000

ethomographic film indian

NOV.13 BT9 T. S. OSDENE

000002571